San Francisco Bay Area Regional ITS Architecture

Steering Committee Meeting #2

Metropolitan Transportation Commission
Fruitvale Room, MTC, 101 Eighth Street,
Oakland, California 94607
03/27/2007

Summary of Maintenance Committee Meeting 01/09/07

- The Committee approved inclusion of the "Golden Gate Bridge Highway and Transportation District Radio Replacement" project in the Bay Area Regional ITS Architecture

- Regional ITS Architecture Update Kick-off
  - Project Overview, Objective, and Schedule
  - Bay Area Regional ITS Architecture Maintenance Committee will act as the Steering Committee during the RA Update

Summary of ITS Plan Stakeholder Workshop Results

- Attendance
- Updated Project List (April 6)
- Element Summary
- Workshop Survey Results
- ITS Issues

Have you ever used the Bay Area Regional ITS Plan?

- 45% YES
  - Reference – SERF & SEMP
  - System Requirements
  - Test and analyze Smart Corridors software
  - Federal Earmarks
- 55% NO

ITS Plan Workshop
Survey Results

How can Bay Area ITS Plan be improved to make it more accessible or useful?

- More well planned training and available online
- Make the plan interactive (sort by Agency, category, project, etc)
- More illustrations about architecture – less perception
- Links to free resources

ITS Issues Discussion

- Stakeholder Workshop #1 identified ITS issues in the Bay Area
- Additional ITS issues not already identified?
- Prioritization
  - ITS issues for inclusion in the ITS Plan
  - Issues for MTC consideration outside of the ITS Plan

ITS Plan Workshop
ITS Issues in the Bay Area

Issues identified at the workshop include:

- Duplication of ITS services

- Sustainability of ITS projects

- Regional resources for O&M

- Explore funding policies that reward integration

- Training opportunities for local agencies

- Need advocates to acquire funding (i.e. bicycle/ped.)

Deliverable #1
Project Inclusion Criteria

- Purpose – to provide guidelines for stakeholders on which projects to submit for the Update
- All ITS Projects submitted to the ITS Plan *except*:
  - Routine O&M
  - Signal re-timing
  - Isolated traffic signals
  - Studies, plans with no implementation
- Provide comments by April 3

Streamlining for Use and Maintenance

- Minimize use of ITS jargon
- Maintain the project focused structure
- Plan shown from each stakeholder's viewpoint
- Web-based Plan rather than a paper document

ITS Plan Workshop
Project focused structure

- Projects will be tied to appropriate categories (market packages)

Project ID	Project Name and Location	Description	Lead Agency	Market Packages
12	I-580 Smart Corridor	Phase I includes a fiber-optic communication trunk connecting Dublin, Pleasanton and Livermore TOC's, 3 new TOC's, and discretionary funds for local system improvements. Phase II, to be defined and implemented, will focus on incident detection and mgmt.	Pleasanton	ATMS01-3 ATMS08-3 ATMS08-14

Market Package ATMS01-3

ATMS01 - Network Surveillance
Sub-regional and Local City/County Traffic Operations Systems

Information Service Provider

511 System
+
Private Sector Traveler Information Services
+
TravInfo and Regional Archive System

Traffic Management

Sub-regional and Local City/County Traffic Operations Systems

Roadway Subsystem

Sub-regional and Local City/County Roadside Equipment

← − − − road network conditions − − −

− − − traffic flow − − − →

− − − traffic sensor control − − − →

← − − − traffic images − − −

− − − video surveillance control − − − →
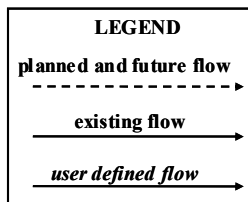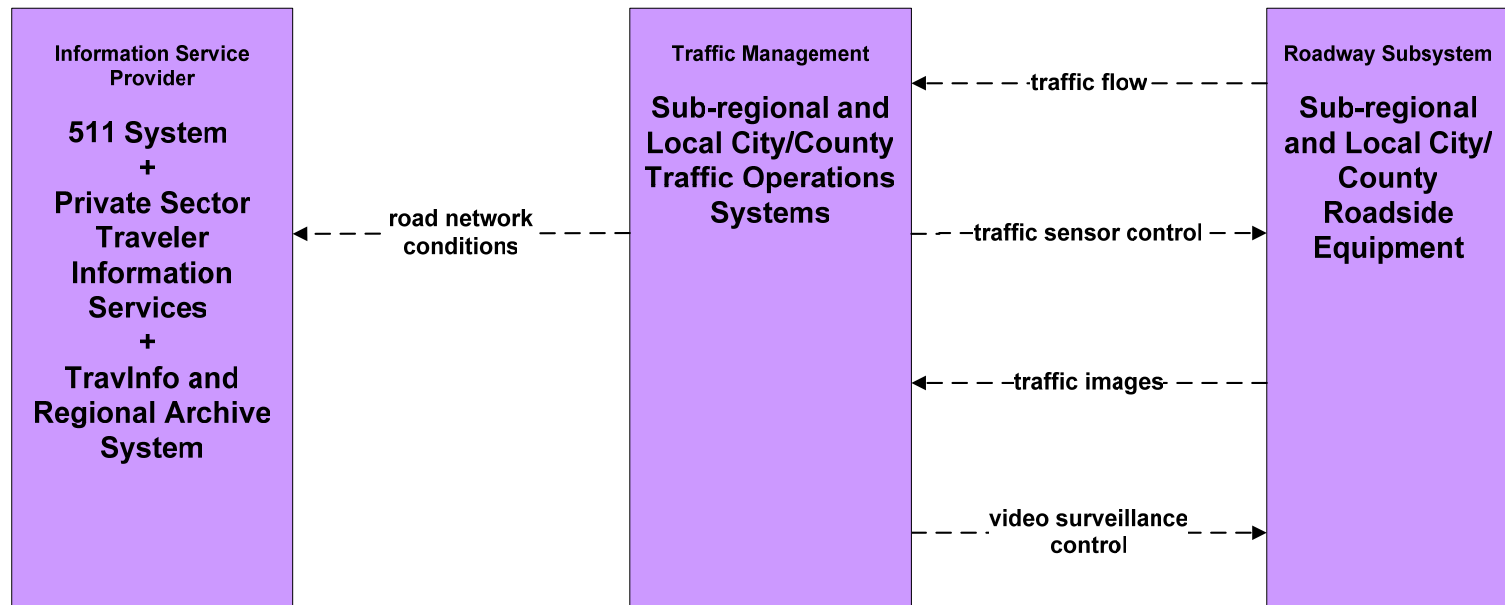
NOTE: City/County includes but is not limited to Antioch, Campbell, Cupertino, Pleasant Hill, Pleasanton, Redwood City, San Leandro, Santa Clara, San Matao, Vallejo, Walnut Creek
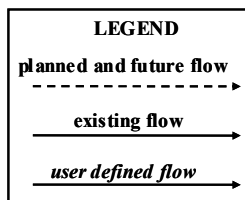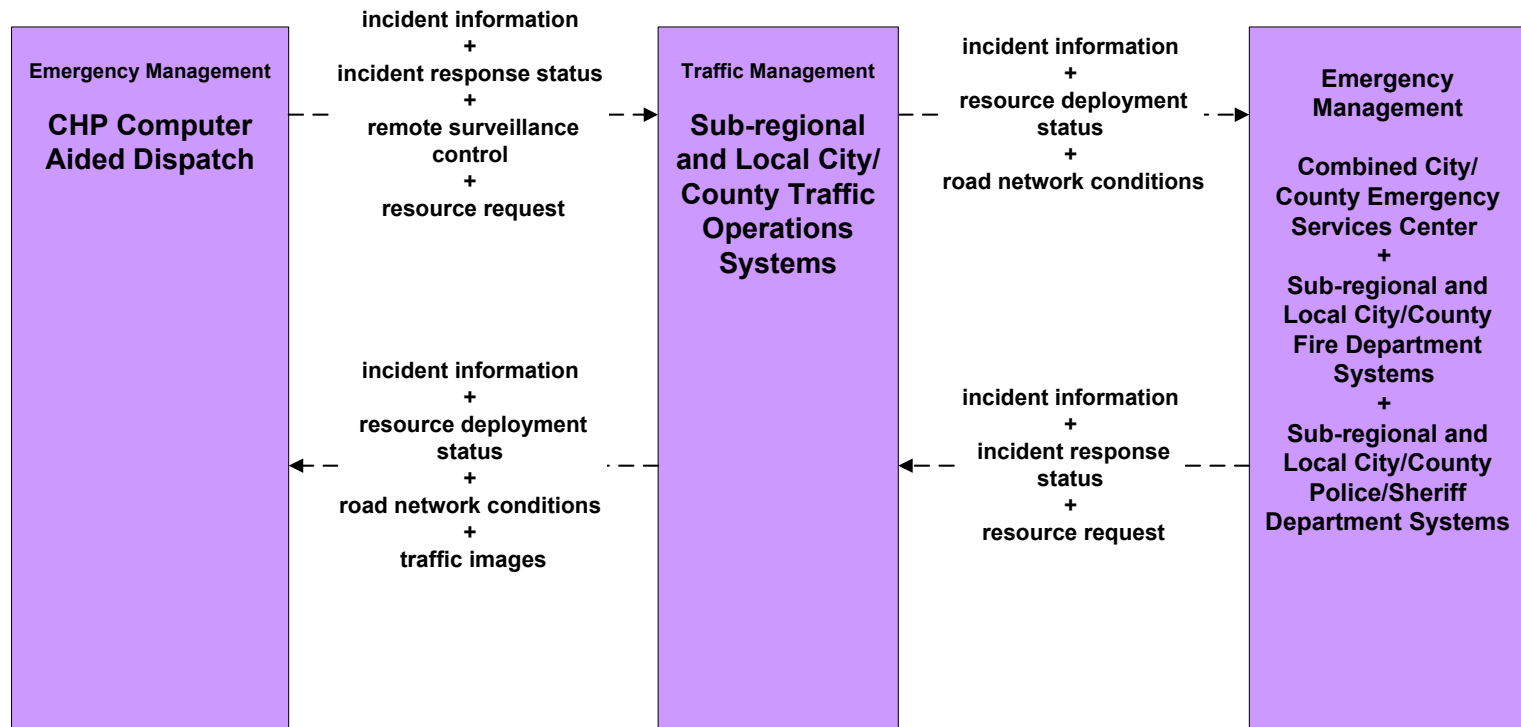
LEGEND

planned and future flow

− − − − − − − − →

existing flow

⎯⎯⎯⎯⎯→

user defined flow

⎯⎯⎯⎯⎯→

Market Package ATMS08-3

ATMS08 - Incident Management
Sub-regional and Local City/County Traffic Operations Systems (TM to EM)

Emergency Management

CHP Computer Aided Dispatch

incident information
+
incident response status
+
remote surveillance control
+
resource request

Traffic Management

Sub-regional and Local City/County Traffic Operations Systems

incident information
+
resource deployment status
+
road network conditions

Emergency Management

**Combined City/County Emergency Services Center
+
Sub-regional and Local City/County Fire Department Systems
+
Sub-regional and Local City/County Police/Sheriff Department Systems**

incident information
+
resource deployment status
+
road network conditions
+
traffic images

incident information
+
incident response status
+
resource request

LEGEND

planned and future flow

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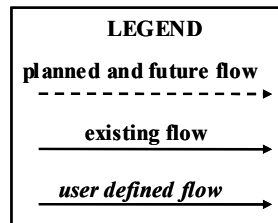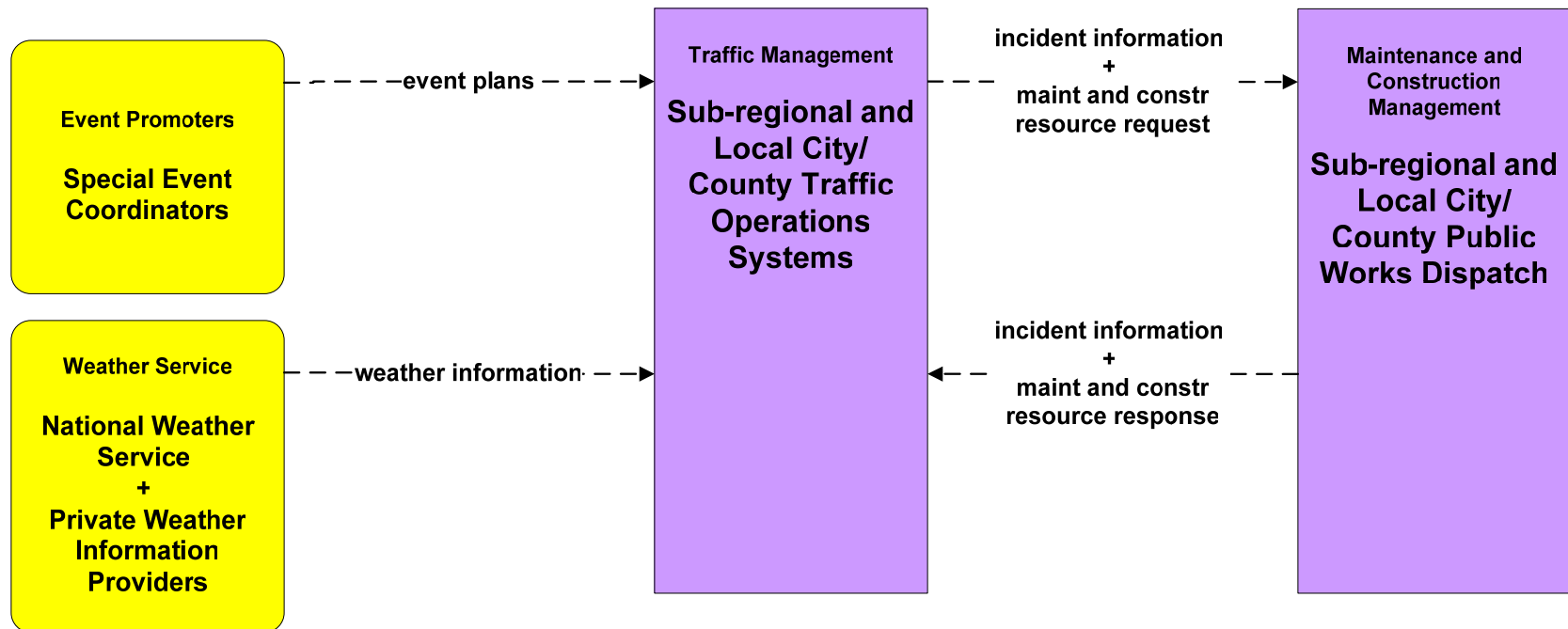
existing flow
———————>

user defined flow
———————>

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Market Package ATMS08-14

ATMS08 - Incident Management
Sub-regional and Local City/County Traffic Operations Systems (MCM to EM)

Event Promoters

Special Event Coordinators

— event plans →

Weather Service

National Weather Service + Private Weather Information Providers

— weather information →

Traffic Management

Sub-regional and Local City/County Traffic Operations Systems

incident information + maint and constr resource request →

incident information + maint and constr resource response ←

Maintenance and Construction Management

Sub-regional and Local City/County Public Works Dispatch

LEGEND

planned and future flow

existing flow

user defined flow

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Next Steps

- Solicit additional input from stakeholders not present at the March 12th workshop
- Confirm needs
- Revisit priorities
- Revise the project list
- Draft connections
- May 10 Stakeholder Workshop

Next Steps

- Next Steering Committee meeting
  - Wed. May 30, 9 am – 11 am
  - Wed. May 30, 1 pm – 3 pm
  - Fri. June 1, 9 am – 11 am
- Provide availability by April 3

METROPOLITAN TRANSPORTATION COMMISSION